



# 2000 Toxics Release Inventory

## SOUTH DAKOTA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industry	New Industry	Total
On-site Releases	3,900,268	5,582,787	9,483,056
Air Emissions	1,762,529	287,117	2,049,646
Surface Water Discharges	2,073,645	242,940	2,316,585
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	822,600	822,600
On-site Land Releases to RCRA Subtitle C Landfills	417	0	417
Other On-site Land Releases	63,677	4,230,130	4,293,807
Off-site Releases (Transfers Off-site to Disposal)*	77,496	45,201	122,697
<b>Total On- and Off-site Releases</b>	<b>3,977,765</b>	<b>5,627,988</b>	<b>9,605,753</b>
Recycled On-site	249,200	0	249,200
Recycled Off-site	724,396	61,299	785,695
Energy Recovery On-site	1,292,100	0	1,292,100
Energy Recovery Off-site	375,461	0	375,461
Treated On-site	1,575,583	3,213,494	4,789,077
Treated Off-site**	310,836	3	310,839
Quantity Released On- and Off-site***	3,966,791	5,581,835	9,548,627
<b>Total Production-related Waste Managed</b>	<b>8,494,367</b>	<b>8,856,631</b>	<b>17,350,998</b>
<b>Non-production-related Waste Managed</b>	<b>2,031</b>	<b>1,700</b>	<b>3,731</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	719,961	61,299	781,260
Energy Recovery	375,171	0	375,171
Treatment	177,023	0	177,023
Publicly Owned Treatment Works (POTWs)	148,028	0	148,028
Metals and Metal Compounds*	854	0	854
Non-metal TRI Chemicals**	147,174	0	147,174
Other Off-site Transfers****	0	0	0
Transfers Off-site to Disposal (not including metals to POTWs)	76,642	45,201	121,843
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>1,496,826</b>	<b>106,500</b>	<b>1,603,326</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

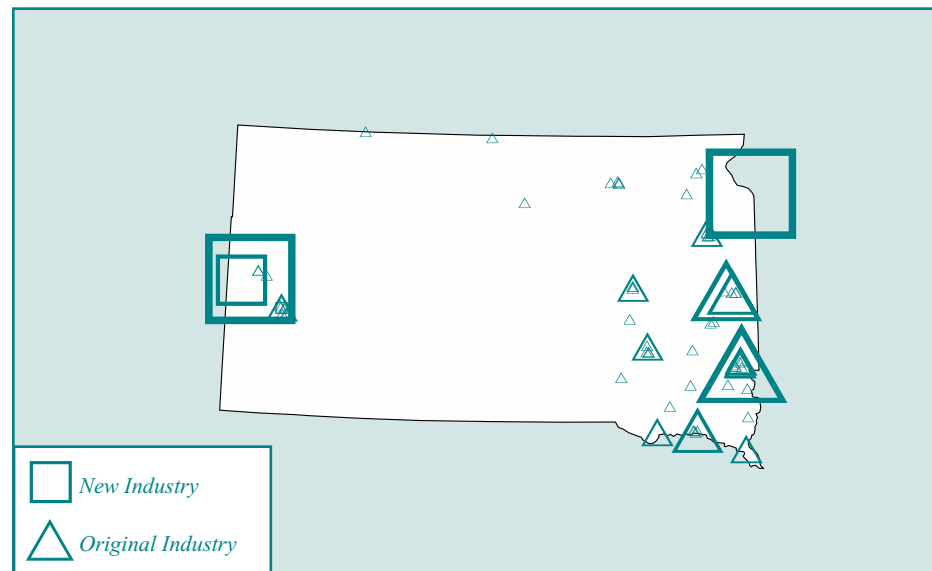
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(303) 312-6447  
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To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 566-0250  
Fax: (202) 401-2347  
tri.us@epa.gov



The largest marker in the state map represents the largest facility for on-site releases in the state of South Dakota. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	755,509
Square Miles	75,896
Total Facilities	77
Total Forms	188
Form As	39

	Original Industry	New Industry	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	44	43	46
Pounds	3,977,765	5,627,988	9,605,753
<b>National Rank for Total On-site Releases**</b>			
Rank	42	42	45
Pounds	3,900,268	5,582,787	9,483,056
<b>National Rank for Total Releases within State***</b>			
Rank	44	42	46
Pounds	3,962,332	5,627,983	9,590,315
<b>National Rank for Production-related Waste Managed</b>			
Rank	48	44	50
Pounds	8,494,367	8,856,631	17,350,998

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 2000 Toxics Release Inventory

## SOUTH DAKOTA

### On-site and Off-site Releases for Top Five Chemicals Ranked on Total Releases in the State (All Chemicals)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Arsenic compounds	123	569	820,000	2,220,000	0	3,040,692	0	0	0
—	Nitrate compounds	0	2,308,860	0	185,557	68	2,494,485	0	63	5
—	Zinc compounds	1,112	0	0	1,100,000	30,832	1,131,944	0	30,632	200
110-54-3	n-Hexane	600,456	0	0	0	0	600,456	0	0	0
1330-20-7	Xylene (mixed isomers)	553,587	0	0	417	750	554,754	0	750	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for PBT Chemicals Ranked on Total Releases in the State

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Polycyclic aromatic compounds	32.96	22.20	0.00	0.00	494.10	549.26	0.00	494.10	0.00
—	Mercury compounds	182.00	0.00	0.00	33.30	0.00	215.30	0.00	0.00	0.00
191-24-2	Benzo(g,h,i)perylene	110.00	0.00	0.00	0.00	0.00	110.00	0.00	0.00	0.00
7439-97-6	Mercury	30.21	0.02	0.00	8.00	6.00	44.23	0.00	6.00	0.00
—	Dioxin and dioxin-like compounds	0.00	0.03	0.00	0.00	0.08	0.11	0.00	0.08	0.00
—	<i>Dioxin and dioxin-like compounds (in grams)</i>	<i>1.086</i>	<i>12.602</i>	<i>0.000</i>	<i>0.000</i>	<i>36.081</i>	<i>49.769</i>	<i>0.000</i>	<i>36.081</i>	<i>0.000</i>
1336-36-3	Polychlorinated biphenyls (PCBs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
309-00-2	Aldrin	—***	—	—	—	—	—	—	—	—
57-74-9	Chlordane	—***	—	—	—	—	—	—	—	—
76-44-8	Heptachlor	—***	—	—	—	—	—	—	—	—
118-74-1	Hexachlorobenzene	—***	—	—	—	—	—	—	—	—
465-73-6	Isodrin	—***	—	—	—	—	—	—	—	—
72-43-5	Methoxychlor	—***	—	—	—	—	—	—	—	—
29082-74-4	Octachlorostyrene	—***	—	—	—	—	—	—	—	—
40487-42-1	Pendimethalin	—***	—	—	—	—	—	—	—	—
608-93-5	Pentachlorobenzene	—***	—	—	—	—	—	—	—	—
79-94-7	Tetrabromobisphenol A	—***	—	—	—	—	—	—	—	—
8001-35-2	Toxaphene	—***	—	—	—	—	—	—	—	—
1582-09-8	Trifluralin	—***	—	—	—	—	—	—	—	—

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

\*\*\* No reports were submitted for these chemicals.



# 2000 Toxics Release Inventory

## SOUTH DAKOTA

### On-site and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (All Chemicals)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases	
	Underground Injection				On-site Releases to Land			(Transfers Off-site to Disposal)	
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds		Transferred Within State Pounds	Transferred Out of State Pounds
Homestake Mine, Lead, Lawrence	59,127	222,647	0	822,600	0	2,228,000	3,332,374	0	0
John Morrell & Co., Sioux Falls, Minnehaha	63,156	2,073,418	0	0	0	3,586	2,140,160	16,085	0
Otter Tail Power Co. Big Stone Plant, Big Stone City, Grant	190,792	0	0	0	0	1,728,030	1,918,822	0	0
South Dakota Soybean Processors, Volga, Brookings	597,248	0	0	0	0	0	597,248	0	0
Wharf Resources (U.S.A.) Inc., Lead, Lawrence	34,110	20,260	0	0	0	274,100	328,470	0	5
Alcoa Extrusions Inc., Yankton, Yankton	214,016	0	0	0	0	0	214,016	50	4,100
3M Health Care Brookings, Brookings, Brookings	213,142	0	0	0	0	0	213,142	0	0
Design Tanks Inc., Sioux Falls, Minnehaha	128,600	0	0	0	0	0	128,600	0	0
GCC Dacotah, Rapid City, Pennington	765	0	0	0	0	60,088	60,853	0	0
SMC Corp., Sioux falls, Minnehaha	52,648	0	0	0	0	0	52,648	0	0

\* The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On-site and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (PBT Chemicals)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases	
	Underground Injection				On-site Releases to Land			(Transfers Off-site to Disposal)	
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds		Transferred Within State Pounds	Transferred Out of State Pounds
Otter Tail Power Co. Big Stone Plant, Big Stone City, Grant	181.40	0.00	0.00	0.00	0.00	30.00	211.40	0.00	0.00
3M Health Care Brookings, Brookings, Brookings	112.00	0.00	0.00	0.00	0.00	0.00	112.00	0.00	0.00
Wheeler Lumber L.L.C., Whitewood, Lawrence	3.10	22.23	0.00	0.00	0.00	0.00	25.33	494.18	0.00
GCC Dacotah, Rapid City, Pennington	14.57	0.00	0.00	0.00	0.00	8.00	22.57	0.00	0.00
Dairiconcepts, Pollock, Campbell	21.00	0.00	0.00	0.00	0.00	0.00	21.00	0.00	0.00
Black Hills Corp. Ben French Power Plant, Rapid City, Pennington	15.91	0.02	0.00	0.00	0.00	0.00	15.93	6.00	0.00
Pete Lien & Sons Inc., Rapid City, Pennington	2.00	0.00	0.00	0.00	0.00	3.30	5.30	0.00	0.00
John Morrell & Co., Sioux Falls, Minnehaha	5.20	0.00	0.00	0.00	0.00	0.00	5.20	0.00	0.00
Alcoa Extrusions Inc., Yankton, Yankton	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
—									

**Note:** Facility ranked 9 reported less than 0.01 pounds of on- and off-site releases. Although there are less than ten facilities in this ranking, there were facilities that met chemical reporting thresholds but reported zero on- and off-site releases.

\* The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 2000 Toxics Release Inventory

## SOUTH DAKOTA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (All Chemicals)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Homestake Mine, Lead, Lawrence	0	299	0	0	725,500	0	3,290,380	4,016,179	1,700
John Morrell & Co., Sioux Falls, Minnehaha	0	0	0	0	163,203	16,982	2,141,976	2,322,161	0
Otter Tail Power Co. Big Stone Plant, Big Stone City, Grant	0	0	0	0	424,494	0	1,915,201	2,339,695	0
South Dakota Soybean Processors, Volga, Brookings	0	0	0	0	0	0	597,248	597,248	0
Wharf Resources (U.S.A.) Inc., Lead, Lawrence	0	61,000	0	0	2,063,500	3	327,470	2,451,973	0
Alcoa Extrusions Inc., Yankton, Yankton	0	7,835	0	302,500	324,900	5,900	212,566	853,701	0
3M Health Care Brookings, Brookings, Brookings	0	0	1,292,100	483	430,200	164,000	212,112	2,098,895	0
Design Tanks Inc., Sioux Falls, Minnehaha	0	0	0	900	0	0	129,000	129,900	0
GCC Dacotah, Rapid City, Pennington	0	0	0	0	0	0	60,521	60,521	0
SMC Corp., Sioux Falls, Minnehaha	1,000	0	0	0	0	150	52,648	53,798	0

\* The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (PBT Chemicals)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Wheeler Lumber L.L.C., Whitewood, Lawrence	0	0	0	0	0	1,165	519	1,684	0
Otter Tail Power Co. Big Stone Plant, Big Stone City, Grant	0	0	0	0	59,494	0	201	59,695	0
3M Health Care Brookings, Brookings, Brookings	0	0	0	0	0	0	112	112	0
GCC Dacotah, Rapid City, Pennington	0	0	0	0	0	0	23	23	0
Black Hills Corp. Ben French Power Plant, Rapid City, Pennington	0	0	0	0	0	0	22	22	0
Dairiconcepts, Pollock, Campbell	0	0	0	0	0	0	21	21	0
Pete Lien & Sons Inc., Rapid City, Pennington	0	0	0	0	0	0	5	5	0
John Morrell & Co., Sioux Falls, Minnehaha	0	0	0	0	0	0	5	5	0
Alcoa Extrusions Inc., Yankton, Yankton	0	0	0	0	0	0	0	0	0

**Note:** Facility ranked 9 reported less than 1 pound of total production-related waste. Although there are less than ten facilities in this ranking, there were facilities that met chemical reporting thresholds but reported zero quantity released on- and off-site.

\* The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.